GRUNDIG
Cinema
9050 • 9051

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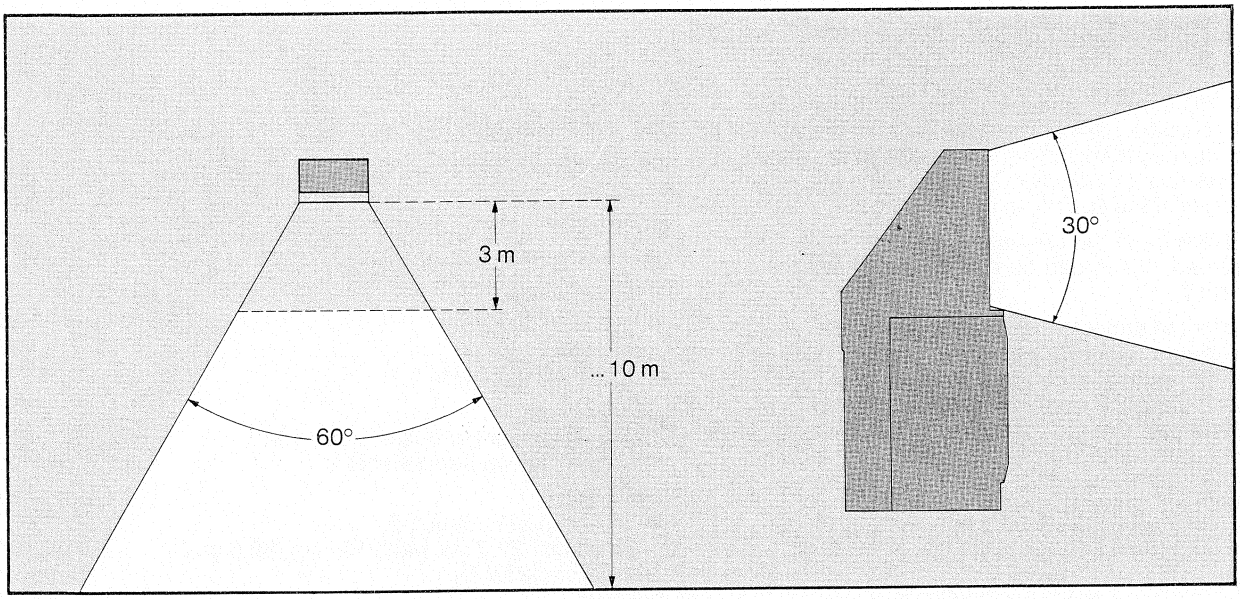
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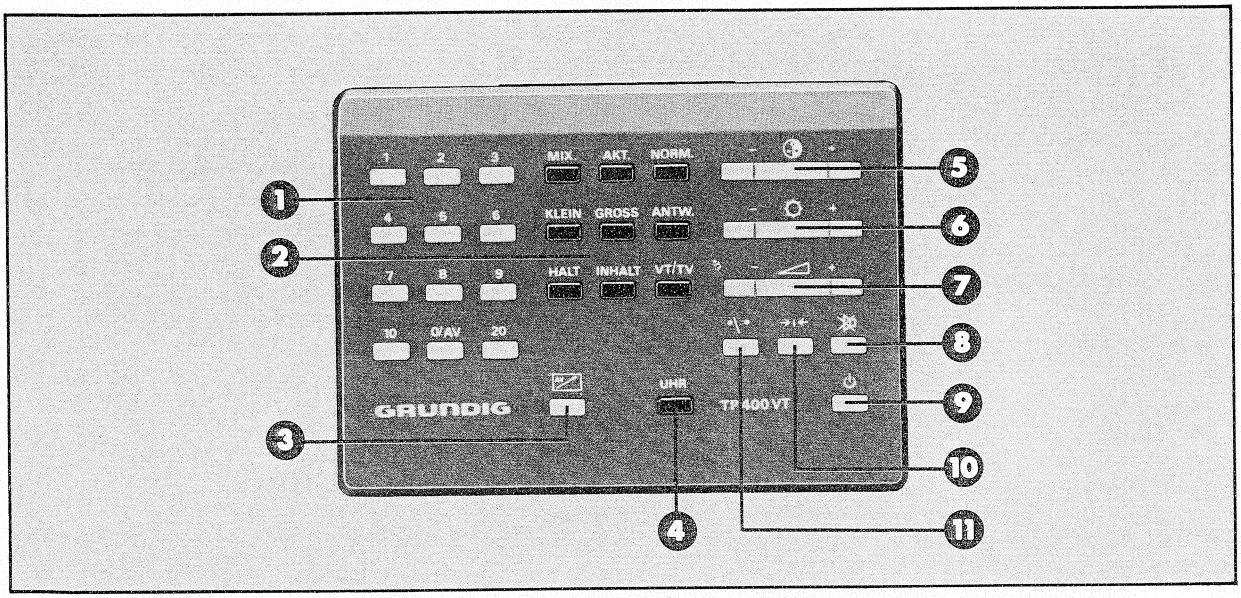
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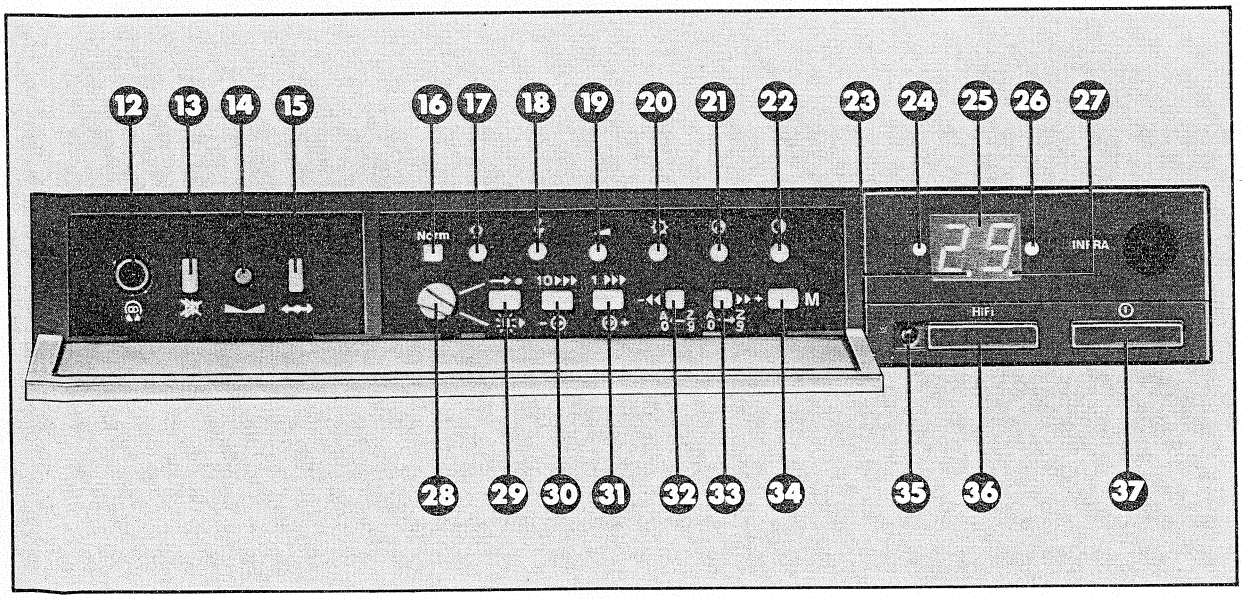
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The Grundig Cinema 9050/9051

The GRUNDIG large-screen projector Cinema 9050/9051 is basically a normal TV receiver, but it projects a large picture measuring 81 cm (31.9 in) by 61 cm (24 in) thereby creating a more vivid TV picture and intensifying the reality of the events on the screen.

A special feature of the Cinema 9050/9051 is the projection screen, which can be retracted and extended automatically.

The fact that the projector and the screen form a single unit eliminates the need for complicated adjustments. The three 7" projection tubes are in an in-line arrangement and project the appropriate basic colours (red, green and blue) in amounts varying with picture content onto the high-quality, high-transmission back-projection screen with the aid of two tilted mirrors. The back of the screen is a Fresnel lens which beams the picture in the direction of the viewers. The projector can be used in a wide variety of environments ranging from private homes through hotels and discos to schools, lecture theatres, conference halls and exhibitions.

Specification

Special projection screen:
Width 81 cm (31.9 in), height 61 cm (24 in), diagonal 102 cm (40 in), washable

Luminance (screen brightness):
Approx. 250 cd/m^2

Contrast ratio:
1 : 35

Projection tubes:
3 special projection tubes for R, G, B

Projection lens:
Plastic triple-lens objectives f 1.0/114 mm

Mains voltage:
220 V (GB: 240 V)

Power consumption:
90 W

Aerial input:
75 Ω coaxial socket

Channel coverage:
2 – 12, 21 – 68

Audio output:
2 × 20 W music power

Loudspeakers:
2 built-in loudspeaker boxes, each with 1 mid-range/tweeter and 2 woofers

Dimensions:
Projection screen retracted:
Height 83 cm (32.7 in), width 101 cm (39.8 in), depth 68 cm (26.8 in)

Projection screen extended:
149 cm (58.7 in)

Weight:
100 kg

Subject to alteration

The X-rays generated in this receiver are adequately screened. Accelerating voltage 28.5 kV max.

Licence No. By 245/82/Rö

The GRUNDIG Cinema 9050/9051 meets the VDE safety regulations and the German Post Office specifications.

Installing the Cinema 9050/9051

Before deciding where to place the Cinema 9050/9051 you should give full consideration to the viewing conditions. It is best to choose a location where the screen is not exposed to the light from bright lamps or to direct sunlight. The viewers should be seated at a distance of between 3 m (approx. 10 feet) and 10 m (approx. 33 feet) from the screen. The seats should be within a horizontal viewing angle of 60° or a vertical viewing angle of 30° (see figures). Outside this area the picture will appear darker. The unshaded area in the figures indicates the best viewing area.

There are four castors on the base of the Cinema 9050/9051 so that it can be moved around.

The Projection Screen

The projection screen can be retracted and extended automatically. (More about this on the following pages). When the screen is extended the lid of the projector tilts back. For this reason no objects should be placed on it. The projection screen must not be obstructed when retracted or extended (or touched).

Connection to Mains

The large-screen projection unit is intended for operation from 220 V (GB: 240 V) AC mains.

Additional Information for Units Used in Great Britain

The set is designed to operate from a mains supply of 240 V AC. Your dealer will install your set for you and ensure that your local electricity supply is suitable. No further adjustments should be necessary. We recommend that a 13 amp 3-pin plug fitted with a 3 amp fuse be used. The brown lead must be connected to the live pin (marked "L" or "red" or "brown") and the blue lead must be connected to the neutral pin (marked "N" or "black" or "blue"). On no account should either of the wires be connected to the earth pin (marked "E" or "green"/yellow"). If other mains plugs are used, ensure that they are protected with a 3 amp fuse.

Aerial Connection

There is a standard socket at the back of the projection unit for connecting it to an aerial. Your dealer is familiar with the local reception conditions and will be pleased to advise you on the most suitable aerial system.

Room Lighting

It is neither necessary nor advisable to view the picture in a completely darkened room. Ideally the illumination should be indirect and subdued as this will be more comfortable for the eye.

Any light source should be so placed that there are no annoying reflections on the projection screen.

Operating the Cinema 9050/51 by Remote Control

Switching On

To switch on press the on/off button marked ⏻ ㊲ on the projection unit. The screen will automatically move up and station 1 will then come on ("1" appears in the display ㉕) and the volume, brightness and colour level will automatically be optimised.

Standby

If you wish to switch off for short periods, it is possible to switch the set to standby until needed. Point the remote-control handset at the projection unit and press the standby button marked ❾. The screen will retract immediately and a green horizontal line will appear in the station indicator window ㉕ to indicate standby.

Switching Off

When you wish to switch the projection unit off for longer periods (eg: during the night or when leaving your home) press button marked ⏻ ㊲ on the unit a second time. The station indicator ㉕ will go out completely to indicate that the projection unit is off.

N.B. The projection screen can be left in two positions ie: when the unit is switched off with the on/off switch marked ⏻ ㊲ the screen will stay in the position in which it was last eg: extended. If it is required that the screen is retracted when the projection unit is not being used, then first switch the projection unit to standby by pressing button ❾ on the remote-control handset, then once screen is lowered switch the projection unit off with the on/off button ㊲.

Station Selection (up to 30 Stations)

(If the set has not already been tuned to the local TV stations, it will be necessary to tune it; for information on how to do this see the section entitled "Tuning the Cinema 9050/9051".)

Pressing one of the group of station buttons ❶ marked "1" – "9" and "O/AV" will switch the set on from standby (during which the screen is automatically extended) or change the channel if it is already on. From the tenth station upwards two buttons must be pressed within 8 seconds one after the other, eg: for the tenth station, the button marked "10" followed by the one marked "0" (the receiver will only switch on or change channel when the second ("units") button is pressed). The number of the station selected is shown in green in the station indicator window ㉕. Pressing the button marked "O/AV" switches the unit to video recorder operation (channel indication "AV"). When the channel is changed, the abbreviation for the station selected appears in the top right-hand corner of the screen for 6 seconds.

Optimum Picture and Sound

If the volume, brightness or colour level has been altered, they can be reset to their optimum values by pressing the button marked → | ← ❿.

Volume, Brightness and Colour

There are three rocker buttons on the Tele-Pilot remote-control handset which can be used to adjust the volume ❼, brightness ❻ and colour ❺ to your personal taste.
Pressing the left-hand side (–) produces a decrease in the adjustment concerned, while pressing the right-hand side (+) produces an increase.

Temporary Sound Mute

The TV sound can be switched off (eg: if the telephone rings) by pressing button ❽. To switch the sound back on press the "mute" button ❽ again.

Automatic Mono/Stereo Switching

If a TV programme is broadcast in stereo, your set will automatically reproduce the sound in stereo. To indicate this the two green dots ㉔ and ㉖ light up.

Sound Channel Selection (see also table on page 6).

If a TV programme is being broadcast with two different sound channels, you may select the channel you want to listen to with button ⓫.
Example: If a foreign film is being broadcast with English sound on channel 1 and the original foreign language sound track on channel 2, you can switch from one sound channel to the other by pressing button ⓫.

Videotext/Teletext

Your projection TV unit is capable of receiving Videotext/Teletext. You can operate the Videotext/Teletext functions with the centre group of buttons ❷ on the remote control unit (Tele-Pilot). For instructions on how to do this see the Videotext/Teletext instructions supplied.

Displaying the Time

Whenever Videotext/Teletext is being broadcast, you can display the time of day (in hours, minutes and seconds) on the screen by pressing button ❹. The display is automatically switched off after 5 seconds.

Operating the Cinema 9050/9051 with the Controls on the Set

Station Selection

(If the set has not already been tuned to the local TV station, see the section entitled "Tuning the Cinema 9050/9051 to the Local TV Stations").

Repeatedly pressing and releasing the button ㉛ marked ⊕ + on the set steps through the stations in the sequence 1, 2, 3 . . . 29, AV, 1, 2, 3 . . . and so on. Pressing button ㉚ marked – ⊖ reverses the sequence. The control ㉘ must be in the position marked ☀.

Picture Contrast

The brilliance of the brightest parts of the picture (= picture contrast) can be altered with the control ㉒ marked ◐ to meet your personal requirements.

Important

If you wish to watch a stationary picture (eg: test card, Teletext page) for longer than 30 minutes, reduce the contrast with control ㉒ to not more than 2/3rd of its maximum level to prevent a permanent image being produced on the projection tubes.

Basic Settings of Colour Level, Brightness and Volume

When the set is switched on or if the button ⑩ marked →| ←on the remote control unit is pressed, the colour level, brightness and volume will automatically be set to their optimum levels. You can adjust these basic levels to your individual taste or change them by using the following controls:

Colour level: ㉑
Brightness: ☼ ⑳
Volume: ▁▃▅ ⑲

Tone

You can adjust the tone of the TV sound to your liking using the treble control ⑱ and the bass control ⑰.

Balance

The balance control ⑭ marked ◀▬▶ is for balancing the volumes of the left- and right-hand sound channels.

Stereo Base Expansion and Spatial Sound

Pressing the button ⑮ expands the stereo base in the case of stereo broadcasts and produces a Spatial Sound effect in the case of mono broadcasts.

Switching off the Loudspeakers

The loudspeakers in the projection unit or external loudspeakers can be switched off with button ⑬ when headphones are being used.

Note:

The projection screen will extend automatically when:

- ▲ the projection unit is switched on with the on/off button ㊲,
- ▲ a station is selected from standby with the button ❶ on the remote control.

The projection screen will retract automatically when:

- ▼ the unit is switched to standby using button ⏻ ❾ on the remote control,
- ▼ the hifi button ㊱ is pressed.

Type of broadcast	Control settings	Sound reproduction	Visual indication
Mono-sound broadcast	Button ⑮ not pressed in	Mono	
	Button ⑮ pressed in	Spatial Sound	
Stereo sound broadcast	Button ⑮ not pressed in	Stereo	Both indicators ㉔, ㉖ lit up
	Button ⑮ pressed in	Stereo with base expansion	
Two-channel sound	Switch between channels by pressing button ⑪ on remote-control handset	Mono channel 1	L. H. indicator ㉔ lit up
		Mono channel 2	R. H. indicator ㉖ lit up

Tuning the Cinema 9050/9051 to Receive Lócal TV Stations

When the Cinema is delivered or if it is moved to another area, the synthesiser tuner will have to be programmed so that you can easily and rapidly select the station you wish to watch by simply pressing one or more of the station buttons group ❶ on your remote control (TP 400 VT/TT). TV stations broadcast on standard frequencies known as "channel numbers". Each of the station positions 1-29 and AV can be set to receive a particular channel number (TV station); the AV position is normally used for video recorder playback. The controls for tuning the receiver to the local transmitters will be found under a flap adjacent to the station indicator window on the front of the set. When the control ㉘ is set to the position ▷◁ the display ㉕ shows the station position; when it is set to the position → • , it shows the channel number.

If you do not know the channel numbers used by the TV stations in your area:

1. Set the control ㉘ to the position marked → • . The channel number will appear in display ㉕.
2. Point the remote control at the Cinema. Press the station selection button 1 group ❶ buttons. The figure 1 will appear in the display ㉕ for about 2 seconds, and then be replaced by the channel numbers.
3. Press the self-seek button ㉙. The figures in the display ㉕ will now change as the Cinema tunes through the TV channels. This will continue until a station is located and a picture appears on the TV screen. If this is not the station you want or the picture quality is unsatisfactory, press the self-seek button again to restart the tuning process. Repeat this procedure until the station you require (eg: BBC 1) appears with satisfactory quality. Then press button ㉞ (marked M) to enter this station in the memory.
4. To tune in the second TV station press the station selection button 2 group ❶ buttons on the remote control. The figure 2 will appear for about 2 seconds in the display ㉕ and then be replaced by the channel number. Now go through the self-seek procedure (press button ㉙ until you find the station (eg: BBC2)). Enter this station in the memory by pressing button ㉞.
5. Station button 3 on the remote control can be allocated to your third TV station by carrying out the self-seek process as described above.
6. This procedure can be repeated for all the station positions up to 29 and for the O/AV position. (Do not forget to press memory button M each time).
7. When all the TV stations you require have been tuned in, return the control ㉘ to the position marked ▷◁ .

If you know the channel numbers used by the TV stations in your area:

1. Set the control ㉘ to the position marked → • . The channel number will appear in display ㉕.
2. Point the remote control at the Cinema and press the station selection button 1 group ❶ buttons. The figure 1 will appear in the display ㉕ for about 2 seconds and then be replaced by the channel number.
3. Now alter the first figure in the display (if necessary) to the first figure of the TV channel number you require by repeatedly pressing button ㉚ marked 10 ▶▶▶ . Then change the second figure (if necessary) to that required by repeatedly pressing button ㉛ marked 1 ▶▶▶ . The required station will then appear on the screen. Press button ㉞ (marked M) to enter this station in the memory.
4. To tune in the second TV station, press station selection button 2 on the remote-control. The figure 2 will appear in the display ㉕ for about 2 seconds and then be replaced by the channel number. Alter the channel number to that required as described under 3.
5. Other station positions (0-29 and 0/AV) can be allocated to TV channel numbers by repeating this procedure.
6. When all the TV stations you require have been tuned in, return the control ㉘ to the position marked ▷◁ .

Fine Tuning

Occasionally, as a result of local reception conditions optimum tuning may not give the best picture. Moreover, some viewers may prefer a "softer" or "harder" picture. In such instances the picture can be adjusted individually for each station by pressing one of the two buttons marked − ◀◀ ㉜ or ▶▶ + ㉝ until the required sharpness is obtained (+ = sharper, − = softer). This adjustment should then be entered in the memory by pressing button M ㉞. The picture will then be adjusted to this setting each time the TV station concerned is selected.

An additional aid to finding your way through the large number of stations which may be available is offered by the

on-screen station identification.

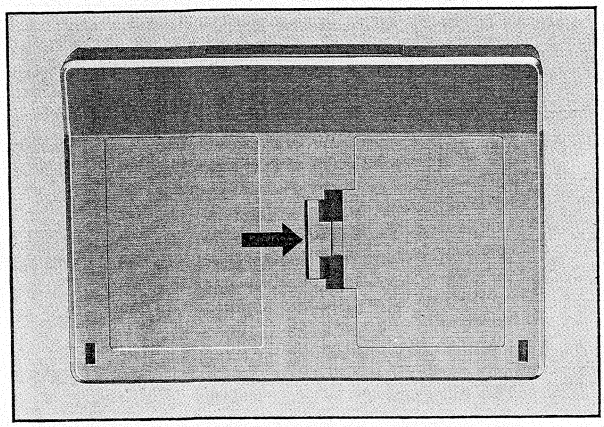
To set this display, you will have to know the abbreviations for the local stations (eg: ARD, ZDF,SWF 3, WDR 3 etc. in West Germany or BBC 1, BBC 2, ITV 1 etc. in Great Britain.

1. Set the control ㉘ to the position marked ▷◁ .
2. Press the self-seek button ㉙. An arbitrary set of numbers and/or letters will appear in the top right-hand corner of the screen. These will have to be altered to correspond to the abbreviation for the station tuned to.

   If the self-seek button is pressed once, the first of the four digit positions will be "activated", ie: the letter or figure in the first position will flash to indicate that you can alter it in the required direction with button ㉝ (A → Z or 0 → 9) or ㉜ (A ← Z or 0 ← 9).
3. Now activate the second position by pressing the self-seek button ㉙ again and enter the required number or letter as described under 2. The third and fourth positions in the display can be set in the same way.
4. Once you have entered the required station abbreviation (eg: SWF 3), you can enter it in the memory by pressing the memory button M, ㉞.

Notes

- The complete tuning programme can also be carried out in the sequence:
  select station position → select channel → enter station identification → enter in memory.
- It is possible to leave blanks in the on-creen station identification. Use button ㉙ to select the position involved (number or letter will flash). Press the button ㉝ marked A → Z until the display shows "0", then press and release it again. A dot will then appear in the position concerned. On pressing button ㉙ a blank will appear in the required position.



Care of the Unit

Your projection unit should be looked after like your furniture. Do not expose it to heat or humidity, and clean the cabinet with a soft cloth which picks up dust. Do not use any aggressive polishing agents. Do not cover up the ventilation holes on the back of the set as this will prevent heat escaping.

As far as possible avoid touching the projection screen as you may scratch it with your finger nails. To clean the screen, wipe it carefully with a moist cloth without applying pressure. To remove persistent stains we recommend a mild window cleaning agent.

Changing the Battery

You can replace the long-life battery in the remote control unit TP 400 VT (GB: TP 400 TT) yourself. To do this, open the battery compartment on the unit by pressing the catch in the direction of the arrow (see figure).
Insert the battery, making sure it is the right way round, and replace the cover by locating the three lugs on it in the corresponding holes in the casing of the unit and pressing it down. An exhausted battery should be removed from the remote control unit as no responsibility is taken for damage caused by leaking batteries. Use a Mallory 6 V 7 K 67 battery or a UCAR 539 battery.

The Sockets on your Cinema

Aerial Socket ㊳

The aerial socket (DIN 45 325, IEC 169-2) can also be used to connect a VCR for HF playback, a video camera (HF) or Tele-Games.

VCR Sockets ㊷ and ㊴

㊷ Video socket for connecting a VCR with AV socket (DIN 45 322, IEC 130-9 A, 6 pins).

㊴ Socket for cable-free remote control of a GRUNDIG video recorder with the remote control handset TP 400 VT (GB: TP 400 TT).

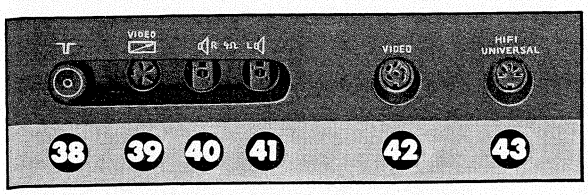
TV Sound Reproduction through HiFi Unit
(using AV Socket)

㊷ Reproduction of the TV sound through a HiFi system using the video hifi adapter cable 4850.

Loudspeaker Sockets ㊵ and ㊶

These are for connecting external loudspeakers. When in use the built-in loudspeakers are switched off. (Plug to DIN 41 529, IEC 130-9).

Aktiv Boxes should be connected via the hifi adapter 403.



Sockets at the Rear of the Projection Unit

Head or Earphone Socket ⑫

This can be used for connecting head or earphones fitted with a stereo 6.3 mm jack plug (see fig. on page 3).

HiFi Universal Socket

㊸ Connecting socket (DIN 41 524) for reproducing cassette recordings, radio programmes etc. through the Cinema using the TV/HiFi adapter 4810.

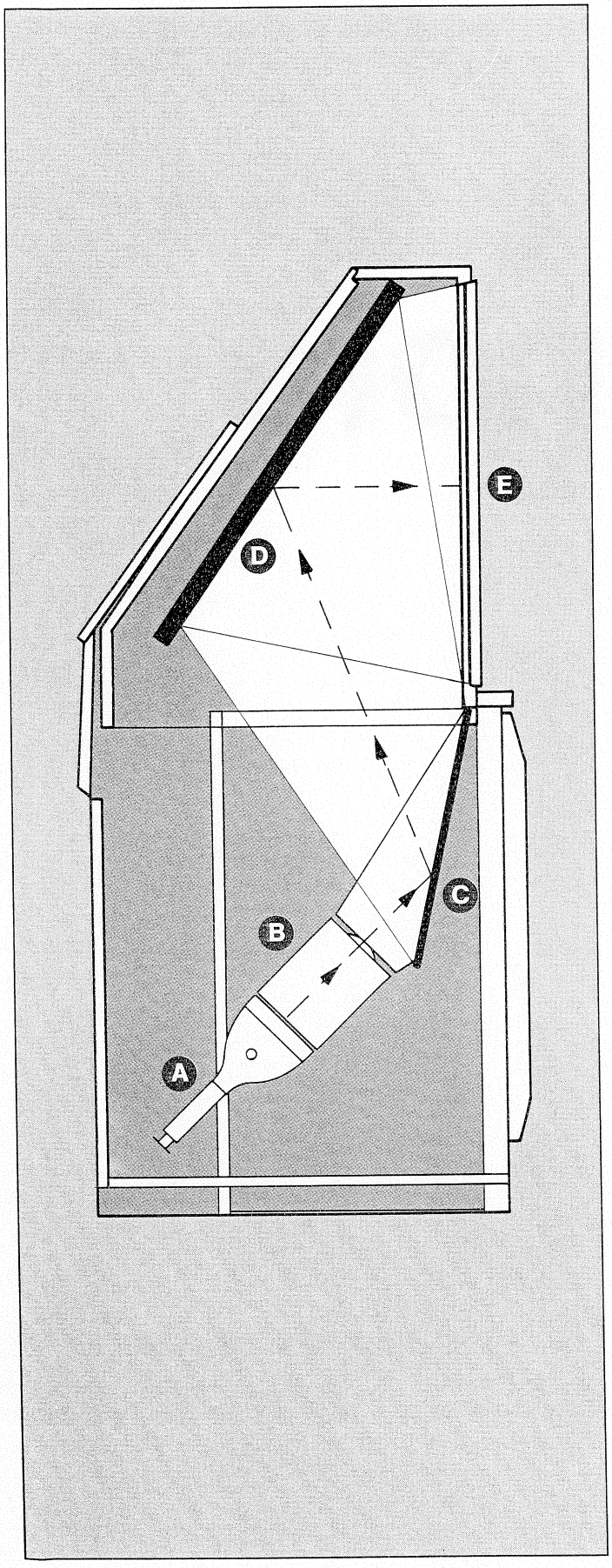
Switch on the projection unit and press button ㊱ (the indicator ㉟ will light up). The picture screen automatically retracts and a station number will appear in the window ㉕.

Connect the HiFi components to socket ㊸ via an adapter 4810. Set the level switch on the adapter so that the level of the sound from the HiFi components is the same as for TV programmes. The volume can be adjusted with button ⑦ on the remote control unit, the balance with the control ⑭, the bass and treble with controls ⑰ and ⑱ on the projection unit.

Rapid Conversion

Your dealer will be able to tell you if TV broadcasts to a different standard can be received (SECAM, NTSC, etc.) in your area. If this is the case, your dealer can convert your projection unit to receive stations using another standard by fitting the appropriate GRUNDIG plug-in decoder board. The set can then be switched to a different standard by button ⑯. The indicator ㉓ serves as a visual indicator. The set is tuned in the same way as for PAL transmissions (not applicable in the UK).
N. B. The publication of these English-language instructions does not imply that all the accessories mentioned are available in the UK.

GRUNDIG Cinema 9050/9051



(GB)

- A Three 7" projection tubes (in-line arrangement)
- B Projection objective f 1.0/114 mm
- C First tilted mirror
- D Second tilted mirror
- E Projection screen

(I)

- A Tre tubi di proiezione da 7" (disposizione in-line)
- B Obiettivo di proiezione 1,0/114 mm
- C 1° specchio
- D 2° specchio
- E Schermo di proiezione

(F)

- A Trois tubes de projection 7", alignés
- B Objectif de projection 1,0/114 mm
- C 1er réflecteur
- D 2ème réflecteur
- E Ecran de projection

(E)

- A 3 tubos de proyección de 7" (disposición Inline)
- B Objetivo de proyección 1,0/114 mm
- C Primer espejo reflector
- D Segundo espejo reflector
- E Pantalla de proyección